

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P182389

Luminaire Tested: **24FR-65-UNV-L827-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26767)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24FR-65-UNV-L827-CD1-U
Description: METALUX 2X4 FR TROFFER LED FIXTURE

Light Source: EATON LED 2700K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6252.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

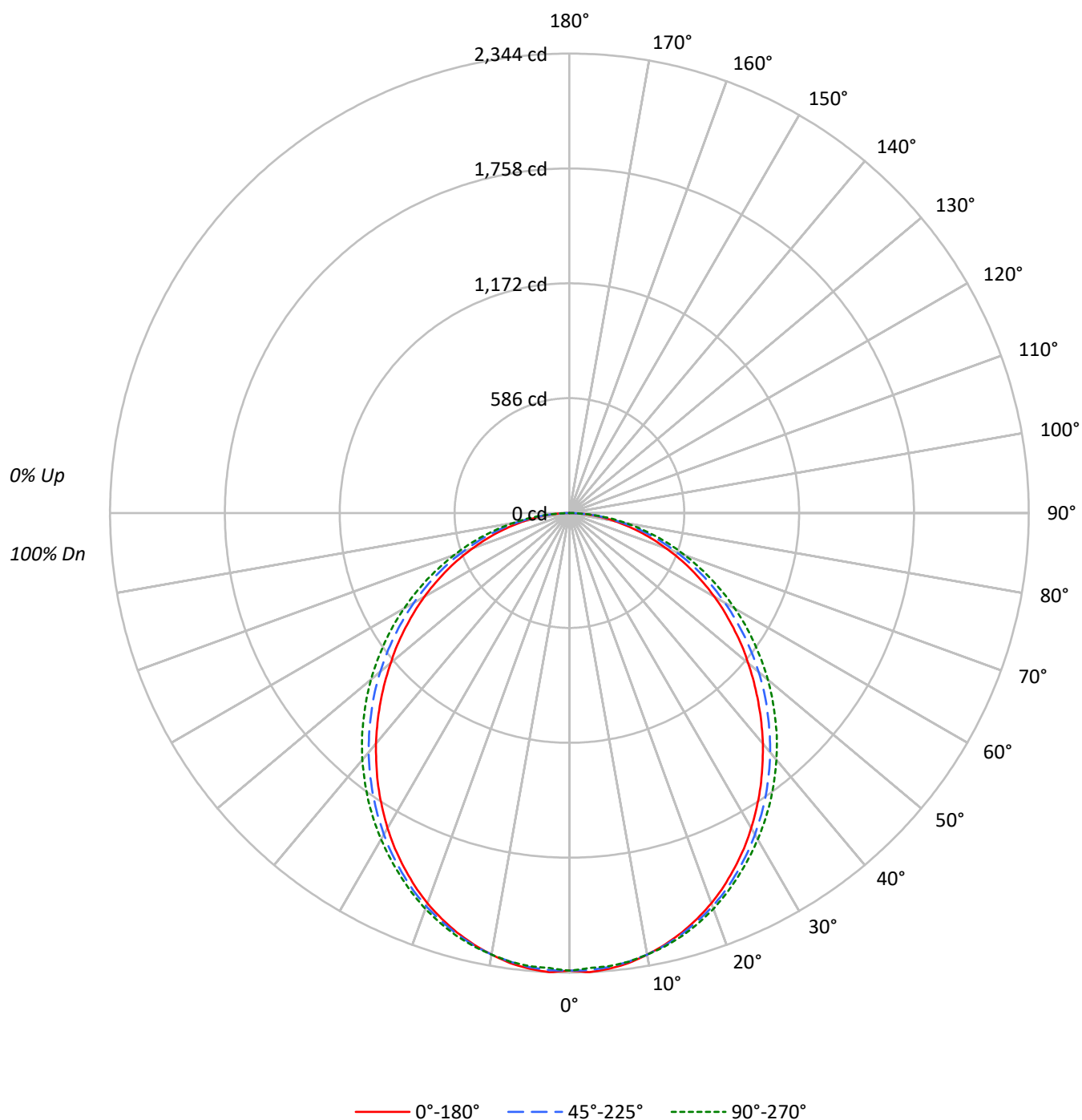
Input Watts (W): 65.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	94		97	94	91		93	91	88		90	88	86
2	99	91	84	78	96	89	82	77		85	80	75		82	77	74		79	75	72
3	90	80	71	65	88	78	70	64		75	69	63		72	67	62		70	65	61
4	83	71	62	55	80	69	61	55		67	60	54		64	58	53		62	57	53
5	76	63	54	48	74	62	54	47		60	52	47		58	51	46		56	50	46
6	70	57	48	42	68	56	48	41		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	41	36
8	61	47	39	33	59	47	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	30		42	34	29		41	34	29		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3140	3140	3140
5°	3152	3140	3134
10°	3125	3125	3125
15°	3086	3096	3109
20°	3034	3058	3077
25°	2962	3003	3032
30°	2883	2942	2986
35°	2794	2873	2939
40°	2697	2800	2887
45°	2592	2718	2827
50°	2490	2638	2767
55°	2395	2550	2695
60°	2298	2464	2622
65°	2193	2379	2547
70°	2065	2284	2455
75°	1939	2181	2368
80°	1795	2051	2260
85°	1602	1903	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	3.5
10°-20°	625.6	10.0
20°-30°	929.0	14.9
30°-40°	1090.2	17.4
40°-50°	1099.8	17.6
50°-60°	971.6	15.5
60°-70°	738.2	11.8
70°-80°	441.7	7.1
80°-90°	135.3	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1775.1	28.4
0°-40°	2865.3	45.8
0°-60°	4936.8	79.0
0°-90°	6252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2334	2334	2334	2334	2334	
5°	2334	2316	2325	2322	2320	221
15°	2215	2204	2223	2229	2232	624
25°	1996	1992	2023	2033	2042	919
35°	1701	1707	1749	1773	1790	1063
45°	1362	1378	1429	1471	1486	1052
55°	1021	1038	1087	1134	1149	914
65°	689	705	747	785	800	682
75°	373	391	420	444	456	396
85°	104	113	123	131	134	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2333.9	2333.9	2333.9	2333.9	2333.9
2.5°	2344.4	2326.3	2333.9	2330.9	2323.3
5°	2333.9	2315.8	2324.8	2321.8	2320.3
7.5°	2315.8	2299.3	2308.3	2308.3	2308.3
10°	2287.2	2273.7	2287.2	2287.2	2287.2
12.5°	2254.2	2242.1	2258.7	2260.2	2263.2
15°	2215.1	2204.5	2222.6	2228.6	2231.6
17.5°	2169.9	2160.9	2180.5	2189.5	2192.5
20°	2118.8	2109.8	2135.4	2141.4	2148.9
22.5°	2060.2	2055.7	2082.7	2088.7	2097.8
25°	1995.5	1992.5	2022.6	2033.1	2042.1
27.5°	1929.3	1927.8	1960.9	1974.5	1983.5
30°	1855.7	1857.2	1893.3	1909.8	1921.8
32.5°	1779.0	1783.5	1822.6	1842.1	1857.2
35°	1700.8	1706.8	1748.9	1773.0	1789.5
37.5°	1618.1	1627.1	1672.2	1700.8	1717.3
40°	1535.4	1545.9	1594.0	1624.1	1643.6
42.5°	1449.6	1463.2	1511.3	1550.4	1566.9
45°	1362.4	1377.5	1428.6	1470.7	1485.7
47.5°	1276.7	1296.3	1345.9	1388.0	1404.5
50°	1189.5	1207.5	1260.2	1303.8	1321.8
52.5°	1108.3	1124.8	1174.4	1219.6	1236.1
55°	1021.1	1037.6	1087.2	1133.8	1148.9
57.5°	938.4	953.4	1001.5	1048.1	1063.2
60°	854.1	869.2	915.8	957.9	974.4
62.5°	771.4	786.5	833.1	872.2	887.2
65°	688.7	705.3	747.4	785.0	800.0
67.5°	607.5	624.1	663.2	699.3	711.3
70°	524.8	542.9	580.5	613.5	624.1
72.5°	448.1	466.2	499.3	527.8	541.4
75°	372.9	391.0	419.6	443.6	455.6
77.5°	300.8	318.8	341.4	360.9	371.4
80°	231.6	248.1	264.7	284.2	291.7
82.5°	165.4	178.9	192.5	207.5	213.5
85°	103.8	112.8	123.3	130.8	133.8
87.5°	45.1	51.1	52.6	54.1	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)